

Environmental Division Fort Collins, Colorado



Oil Dispersants by EPA RAM-DOSS Case Narrative

Boston Chemical Corp

Gulf Coast

Work Order Number: 1008161

- This report consists of 1 water sample. The sample was received cool and intact by ALS on 08/13/2010. As prescribed by the method, the aqueous sample contained headspace upon receipt.
- 2. This sample was prepared and analyzed according to EPA draft method RAM-DOSS.
- 3. The preparation batch included a method blank, laboratory control sample, and laboratory control sample duplicate.
- 4. All preparation QC were within the acceptance criteria.
- All samples are associated with one or more of the following analytical QC: initial calibration, initial calibration verification (ICV, continuing calibration verifications (CCV). In addition, isotope ratios, relative retention times (RRT) and internal standards for each injection were monitored.
- 6. All analytical QC were within the acceptance criteria.
- 7. Sample dilutions were not required for the requested analysis.
- 8. The sample was prepared and analyzed within the established holding times.
- Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 3.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jean Anderson

Organics Primary Data Reviewer

8/30/10 Date



ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND: This flag indicates that the compound was analyzed for but not detected.

J: This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.

B: This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.

E: This flag identifies compounds whose concentration exceeds the upper level of the calibration range.

A: This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.

X: This flag indicates that the analyte was diluted below an accurate quantitation level.

*: This flag indicates that a spike recovery is outside the control criteria.

+: This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

ALS Laboratory Group -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1008161

Client Name: Boston Chemical Corp

Client Project Name: Gulf Coast

Client Project Number: Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
DWH 151 W	1008161-1		WATER	10-Aug-10	6:35



ALS Environmental

Winnipeg, MB 745 Logan Avenue, RS& 3L5 Toll Free: 1-800-607-7555 Fax: 204-945-0763
Thunder Bay, ON 1081 Serten Street, P78 5N3 Tel: 807-823-8463 Fax: 807-823-7595
London, ON, K29 - 309 Exeter Road, N&L 101 Tel: 519-852-6044 Fax: 519-852-0871
Burlington, ON K5 - 5420 Mainway Drive, L7L 6A4 Tel: 908-331-3111 Toll Free: 1-886-257-3884 Fax: 906-331-4567
Waterloe, ON K1 - 50 Northland Road, N2V 2B6 Toll Free: 1-800-888-9878 Fax: 519-886-9047
Ottawa, ON K13 - 210 Colonnade Road, K2E 7U5 Tel: 613-731-1005 Fax: 613-738-1107

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CONDITION OF SAMPLE UPON RECEIPT FORM

Client: HC Burling for Workorder No: 1008/6 Project Manager: TC Initials: CVC Date	61	
Project Manager: JC Initials: CC Date	8-13-	20
Does this project require any special handling in addition to standard Paragon procedures?	YES	NO
2. Are custody seals on shipping containers intact?	YES	MO
Are Custody seals on sample containers intact?	YES	NO ·
4. Is there a COC (Chain-of-Custody) present or other representative documents?	(VES)	NO
s. Are the COC and bottle labels complete and legible?	YES)	NO
Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	YES	NO
7. Were airbills / shipping documents present and/or removable?	F YES	NO
B. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	YES	NO
Are all aqueous non-preserved samples pH 4-9? N/A	YES	NO
10. Is there sufficient sample for the requested analyses?	YES	NO
Were all samples placed in the proper containers for the requested analyses?	YES	NO
12. Are all samples within holding times for the requested analyses?	(TEX	NO
3. Were all sample containers received intact? (not broken or leaking, etc.)	V38	NO
Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: < green pea > green pea	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	YES	NO
17. Were the samples shipped on ice?	YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4 ONLY	YES	NO
Cooler #:		
Temperature (°C): 5,4		
No. of custody seals on cooler:		
bot survey/ External μR/hr reading: 12		
Acceptance Informalion Background µR/hr reading:		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO/ NA (If no, see Form 00	8.)	
Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #		
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If applicable, was the client contacted? ABD NO / NA Contact: H. Kaltofen Date/	Time: 8/1	2/0
Project Manager Signature / Date: \$//7//>	· .	
*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002		
Form 201r22.xls (6/1/09)	6	of 10

From: Origin ID: YATA (905) 331-3111

Brandon Gingrich ALS Environmental 5420 Mainway Drive unit 5

Burlington, ON L7L6A4 CANADA

SHIP TO: (970) 490-1511

Jeff Kujawa **ALS Environmental** 225 COMMERCE DR **BILL SENDER**

FORT COLLINS, CO 80524



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Oil Dispersants by EPA RAM-DOSS

Method EPA_RAM-DOSS Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: LM100816-1MB

Sample Matrix: WATER
% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Aug-10

Date Analyzed: 16-Aug-10

Prep Method: METHOD

Prep Batch: LM100816-1

QCBatchID: LM100816-1-1 Run ID: LM100816-1A Cleanup: NONE

Basis: N/A

File Name: DOSS081610

Sample Aliquot: 20 ml Final Volume: 20 ml

> Result Units: UG/L Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
577-11-7	DIOCTYLSULFOSUCCINATE, SODIUM S	1	20	20	U	

Data Package ID: LM1008161-1

Oil Dispersants by EPA RAM-DOSS

Method EPA_RAM-DOSS Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Field ID: DWH 151 W

Lab ID: 1008161-1

Sample Matrix: WATER % Moisture: N/A Date Collected: 10-Aug-10

Date Extracted: 16-Aug-10
Date Analyzed: 16-Aug-10
Prep Method: METHOD

Prep Batch: LM100816-1 **QCBatchID:** LM100816-1-1

Run ID: LM100816-1A Cleanup: NONE Basis: As Received File Name: DOSS081610 Sample Aliquot: 20 ml Final Volume: 20 ml Result Units: UG/L

esult Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
577-11-7	DIOCTYLSULFOSUCCINATE, SODIUM SALT	1	20	20	U	

Data Package ID: LM1008161-1

Oil Dispersants by EPA RAM-DOSS

Method EPA RAM-DOSS

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Laboratory Group -- FC

Target Analyte

DIOCTYLSULFOSUCCINATE, SODIUM SA

Work Order Number: 1008161

Client Name: Boston Chemical Corp

ClientProject ID: Gulf Coast

Lab ID: LM100816-1LCS

Sample Matrix: WATER % Moisture: N/A Date Collected: N/A

Date Extracted: 08/16/2010 Date Analyzed: 08/16/2010

Prep Method: METHOD

Prep Batch: LM100816-1 QCBatchID: LM100816-1-1

Run ID: LM100816-1A Cleanup: NONE

Basis: N/A

File Name: DOSS081610

Sample Aliquot: 20 ml **Final Volume:** 20 ml Result Units: UG/L

Clean DF:

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
577-11-7	DIOCTYLSULFOSUCCINATE, SODIUM SA	125	104.01	20		83	50 - 150%

LCSD

Result

97.206

Lab ID: LM100816-1LCSD

CASNO

577-11-7

Sample Matrix: WATER % Moisture: N/A

Date Collected: N/A **Date Extracted: 08/16/2010** Date Analyzed: 08/16/2010

Prep Method: METHOD

Spike

Added

125

Prep Batch: LM100816-1 QCBatchID: LM100816-1-1 Run ID: LM100816-1A

Cleanup: NONE Basis: N/A

Reporting

Limit

File Name: DOSS081610

20

Sample Aliquot:	20 ml
Final Volume:	20 ml
Result Units: UG	G/L
Clean DF:	1

LCSD RPD **RPD** Result Qualifier Limit % Rec. 78 30 7

Data Package ID: LM1008161-1